

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1-5 (canceled)

6. (previously presented): A biosensor comprising a substrate coated with a film whose swelling degree in pure water at 25°C is between 1 and 5 with respect to the film thickness in a dry state, the film being on a surface of the substrate to be contacted with a physiologically active substance.

7. (original): The biosensor according to claim 6, wherein the film whose swelling degree in pure water at 25°C is between 1 and 5 with respect to the film thickness in a dry state is an organic substance.

8. (original): The biosensor according to claim 6, wherein the film whose swelling degree in pure water at 25°C is between 1 and 5 with respect to the film thickness in a dry state comprises a high polymer comprising 50% by weight or more of monomers having a solubility in water of 20% by weight or less.

9. (original): The biosensor according to claim 6, wherein the film whose swelling degree in pure water at 25°C is between 1 and 5 with respect to the film thickness in a dry state comprises a hardening agent.

10. (original): The biosensor according to claim 6, which comprises a metal surface or metal film coated with a film whose swelling degree in pure water at 25°C is between 1 and 5 with respect to the film thickness in a dry state.

11. (previously presented): The biosensor according to claim 6, wherein the metal surface or metal film comprises a free-electron metal selected from a group consisting of gold, silver, copper, platinum and aluminum.

12-40 (canceled)